

T. C. Ku

An Amendment to "A Theoretical Solution for the Magnetic Field in the Vicinity of a Recording Head Air Gap"¹

W. Z. Zagwiński* points out in a private communication to the Editor that in Fig. 5 of "A Theoretical Solution for the Magnetic Field in the Vicinity of a Recording Head Air Gap"¹ the curve pertaining to the rectangular head case ($\alpha = 1/2$) is numerically in error. This curve, which was quoted from a paper by Booth², depicts the variation of the field intensity E along the axis of symmetry (v axis) for the rectangular head case. Zagwiński indicates that the curve for this case, where $\alpha = 1/2$, and curves for $\alpha = 11/18$, $2/3$, $3/4$, and 1 should be as shown in the accompanying Fig. 1. The curve for $\alpha = 1/2$ never crosses the curves corresponding to other values of α . Obviously, corrections are also required in Fig. 6 of the authors' paper. The new curves of Fig. 2 incorporate these corrections.

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Figure 1 Variation of intensity along the axis of symmetry for different values of α .

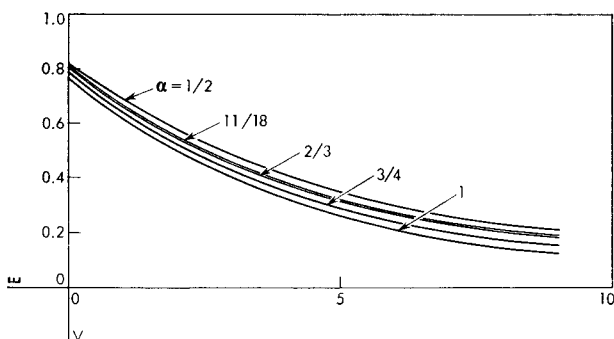
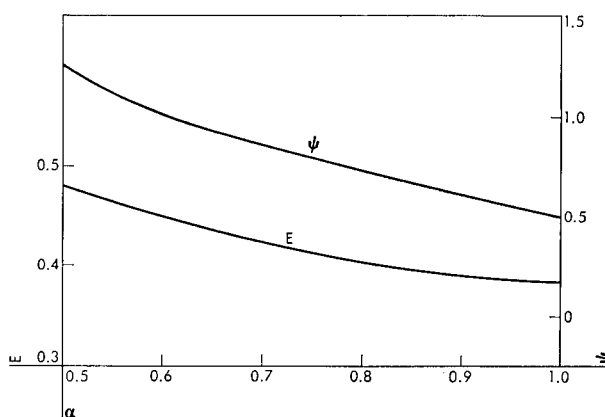


Figure 2 Variation of intensity and ψ with α .



The author wishes to thank Mr. Zagwiński for furnishing the above information, and to remark that in the same communication he also shows a great simplification in the result for the mapping function W when α is the ratio of the two integers.

References

1. E. E. Francis and T. C. Ku, *IBM Journal* **6**, 260 (1962).
2. A. D. Booth, *Brit. J. Appl. Phys.* **3**, 307 (1952).

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